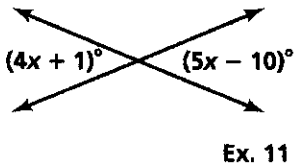


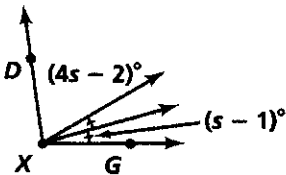
# Cumulative Review (continued)

## Chapters 1–2

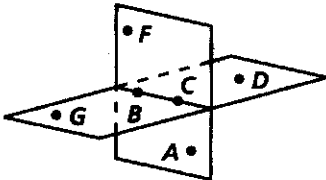
11. What is the value of  $x$ ?  
A. 9                      B.  $-10$                       C. 11                      D.  $-8$
12. Find the next two terms of the sequence.  
 $10, -14, 18, -22, \dots$   
A.  $-26, 30$                       B.  $-30, 26$                       C.  $26, 30$                       D.  $26, -30$
13. If the measure of an angle is 86, what is the measure of its supplement?  
A. 4                      B. 104                      C. 94                      D. 274
14. Refer to the diagram at the right. If  $m\angle DXG = 98$ , find the value of  $s$ .
15. Write the converse of the following statement, and decide whether it is true or false. *If a polygon is a triangle, then it has three sides.*
16. Find the area of a circle with a circumference of  $28\pi$  m.
17. Why is the following statement not a good definition?  
*A linear pair is two angles whose sum is  $180^\circ$ .*
18. What is the intersection of plane  $ABF$  and plane  $BDG$ ?
19. What property justifies the following?  
If  $2x + 4y = 10$  and  $x = y$ , then  $2y + 4y = 10$ .



Ex. 11



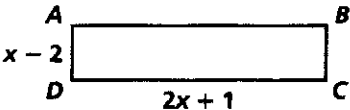
Ex. 14



Ex. 18

Find the coordinates of the center of a circle with diameter  $\overline{QR}$ .

20.  $Q(2, 1), R(-4, 3)$
21.  $Q(-5, -1), R(1, 5)$
22. What is the length of the segment with endpoints  $M(2, -1)$  and  $N(-6, 8)$ ?
23. Find  $x$  if the perimeter of rectangle  $ABCD$  is 22.



Ex. 23

For the given dimensions, find the area of each figure to the nearest hundredth.

24. rectangle:  
 $b = 10$  m  
 $h = 6$  m
25. circle:  
 $d = 22$  cm
26. **Writing** Explain why a point that is equidistant from the endpoints of a segment is *not* the midpoint of the segment.